

REPORT ON BOILERS.

Received at London Office **23 SEP 1958**

Date of writing Report 20-7-1958. When handed in at Local Office 19 Port of Shimonoseki.

No. in Survey held at Hiroshima, Japan Date, First Survey 19th Apr., 1958 Last Survey 10th July, 1958.

Reg. Book. on the M.V. "OCEANIA MARU" (Number of Visits 5) Tons { Gross 8906.5 Net 5414.01

Built at Hiroshima, Japan By whom built Mitsubishi SB & Eng. Co., Ltd., Hiroshima S.Y. Yard No. 137 When built 1958-7

Engines made at Nagasaki, Japan By whom made Mitsubishi SB & Eng. Co., Ltd., Nagasaki S.Y. Engine No. 305 When made 1958-3

Boilers made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H-774 When made 1958-2

Owners Mitsubishi Kaiun K.K. Port belonging to Tokyo

VERTICAL BOILER.

Made at Osaka By whom made Hirano Iron Works Co., Ltd. Boiler No. H-774 When made 1958-2 Where fixed Engine Room

Manufacturers of Steel

Total Heating Surface of Boiler 80 m² Is forced draught fitted No Coal or Oil fired Oil

Name and Description of Boilers 1-Cockran type Working Pressure 7 kg/cm²

Tested by hydraulic pressure to Date of test No. of Certificate 1-47761

Area of fire grate in each Boiler - No. and description of safety valves to each boiler 1 set double spring high lift type.

Area of each set of valves per boiler { per Rule 6.27 m² as fitted 10.3 m² Pressure to which they are adjusted 7.2 kg/cm² Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers

Woodwork 1.5 m Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating

Boiler installed on the 2nd dk of ER. Is the base of the boiler insulated Yes Largest internal dia. of boiler - Height -

Shell plates: Material - Tensile strength - Thickness -

Are the shell plates welded or flanged - If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with - Description of riveting: circ. seams { end - inter -

Long. seams - Dia. of rivet holes in { circ. seams - long. seams - Pitch of rivets { - Percentage of strength of circ. seams { plate - rivets -

Longitudinal joint { plate - rivets - combined - Thickness of butt straps { outer - inner - Shell Crown: Whether complete hemisphere, dished partial -

Circular, or flat - Material - Tensile strength - Thickness -

Radius - Description of Furnace: Plain, spherical, or dished crown - Material -

Tensile strength - Thickness - External diameter { top - bottom - Length as per Rule -

Each of support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

Diameter of stays over thread - Radius of spherical or dished furnace crown -

Thickness of Ogee Ring - Diameter as per Rule { D - d -

Combustion Chamber: Material - Tensile strength - Thickness of top plate -

Radius if dished - Thickness of back plate - Diameter if circular -

Length as per Rule - Pitch of stays -

Are stays fitted with nuts or riveted over - Diameter of stays over thread -

End Plates: Material { front - back - Tensile strength { - Thickness { - Mean pitch of stay tubes in nests -

Comprising shell, dia. as per Rule { front - back - Pitch in outer vertical rows { - Dia. of tube holes FRONT { stay - plain - BACK { stay - plain -

Each alternate tube in outer vertical rows a stay tube -

Stays to Combustion Chamber Tops: Material - Tensile strength -

Length and thickness of girder at centre - Length as per Rule -

Distance apart - No. and pitch of stays in each -

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14/10/58

Crown Stays: Material - Tensile strength - Diameter { at body of stay - or over threads -
 No. of threads per inch - Screw Stays: Material - Tensile strength -
 Diameter { at turned off part - or over threads - No. of threads per inch - Are the stays drilled at the outer ends -
 Tubes: Material - External diameter { plain - stay - Thickness { -
 No. of threads per inch - Pitch of tubes -
 Manhole Compensation: Size of opening in shell plate - Section of compensating ring - No. of rivets and diameter
 of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged -
 Uptake: External diameter 1000 mm Thickness of uptake plate 2.3 mm
 Cross Tubes: No. - External diameters { - Thickness of plates -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,

HIROSHIMA WORKS
 MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

T. Kawata

Manufacturer

Dates of Survey { During progress of work in shops -- 1958: April 19 May 10, 31
 while building { During erection on board vessel --- June 23, July 10
 Is the approved plan of boiler forwarded herewith 22-8-1957 (If not state date of approval.)
 Total No. of visits 5

Is this Boiler a duplicate of a previous case - If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The donkey boiler has been installed under the supervision of the Society's Surveyors in accordance with the requirement of the Rules, approved plans and the Secretary's letters.

The donkey boiler has been examined under steam, and safety valve adjusted to 102 p.s.i. An accumulating test was carried out and found satisfactory.

For the reports on Survey of the donkey boiler during construction in the shop, please see Kobe Surveyor's Rpt. 5b FE 5454 & Cert.No.1-47761 attached herewith.

Survey Fee ... £ See Rpt. 4b No. 895 } When applied for 19
 Travelling Expenses (if any) £ : : } When received 19

Date TUESDAY 21 OCT 1958

Committee's Minute See Rpt. 1

G. H. Hensley K. Okada
 Engineer Surveyor to Lloyd's Register of Shipping.



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